

| gene           | site: cDNA and CT | method for CT   | size | direction | oligonucleotide           | geno acc. no. |
|----------------|-------------------|-----------------|------|-----------|---------------------------|---------------|
| C11orf11<br>CT | 196<br>442        | enzyme Hpa II   | 20   | sense     | GGTGAAGGTCGGAGTCAACG      | J04038        |
| IL-2<br>CT     | 149<br>178        | Insert DNA      | 20   | antisense | CAAACTTGTCAATGGATGACC     |               |
| IL-4<br>C1     | 227<br>159        | Primer deletion | 20   | sense     | CCTCTGGAGGAAGTGCTAA       | K02055        |
| IL-7<br>C1     | 516<br>418        | 4-primer        | 21   | sense     | ATGGGTGCTGTCTCATCAGC      |               |
| IL-8<br>C1     | 271<br>212        | double sense    | 22   | antisense | TTCTACAGCCACCATGAGAAG     | M23462        |
| IL-10<br>C1    | 617<br>513        | enzyme Ssp I    | 25   | sense     | CAGCTCGAACACATTGAATAT     | J-4156        |
| L1S<br>C1      | 409<br>239        |                 | ~21  | antisense | TTTAGGTTATACTTTGGACTTCCTC |               |
| IL-17<br>C1    | 115<br>171        |                 | 22   | sense     | TCTCTGGCAGGCCATCAA        | M29932        |
| IL-19<br>C1    | 267<br>269        |                 | 25   | antisense | AATTCTCAGCCTCTTCAAAACTT   |               |
| IL-21<br>C1    | 431<br>358        |                 | 18   | sense     | GCGGTGGAGCAGGTGAAG        | X-437         |
| IL-22<br>C1    | 321<br>246        | enzyme Bst BI   | 18   | antisense | AAGCCCCAGAGACAAGATA       |               |
| IL-23<br>C1    | 246<br>291        |                 | 20   | sense     | CCGTGGCTTGGACTTCCTCC      |               |
| IL-24<br>C1    | 115<br>267        | enzyme Eco OI   | 15   | antisense | CAGAATTCTCACACTCACAGG     | X91211        |
| IL-25<br>C1    | 431<br>358        |                 | 17   | sense     | GGAGGCCATAGTGAAGG         |               |
| IL-26<br>C1    | 321<br>246        | enzyme Ava II   | 17   | antisense | GGGTGGCTCTCCATAG          | U32659        |
| IL-27<br>C1    | 246<br>291        |                 | 17   | sense     | CGGCTCACACTCACAGG         |               |
| IL-28<br>C1    | 115<br>267        | enzyme Dde I    | 18   | antisense | CTGGCGTGGATGCTATGCTATG    | M31951        |
| IL-29<br>C1    | 246<br>291        |                 | 24   | antisense | GGGGAAAGCTCCATAAATGTCACT  |               |
| IL-30<br>C1    | 321<br>246        | d-primer        | 18   | sense     | TACACACAAAGGGGCCTCCAGCT   | M126079       |
| IL-31<br>C1    | 246<br>291        | insert DNA      | 18   | antisense | GCCTGTTGCTCCTTGTGA        | U11671        |
| IL-32<br>C1    | 321<br>246        |                 | 18   | sense     | GGCACCCCTCTTATACTT        |               |
| IL-33<br>C1    | 246<br>291        |                 | 20   | antisense | CTGCGGATCTCTGTGTCACT      |               |
| IL-34<br>C1    | 321<br>246        | enzyme Alu I    | 22   | sense     | CTCAGAGTGGTTGCTATGGTG     | X1480591      |
| IL-35<br>C1    | 246<br>291        |                 | 22   | antisense | CCAGAGCATCCAAAAGAGTGTG    | A02115        |
| IL-36<br>C1    | 321<br>246        | d-primer        | 20   | sense     | CTAGTTGGCCCTGAGATAAACG    |               |
| IL-37<br>C1    | 246<br>291        |                 | 22   | antisense | CCAATGCCGTGGCCAGCC        | M28010        |
| IL-38<br>C1    | 321<br>246        | double sense    | 20   | sense     | CGGCACGGCTCGCTGTCACTC     |               |
| IL-39<br>C1    | 246<br>291        |                 | 19   | antisense | TGTACTCCCCAACCCATT        | M12111        |
| IL-40<br>C1    | 100<br>280        |                 | 400  | 500       | 600                       |               |

FIGURE 1

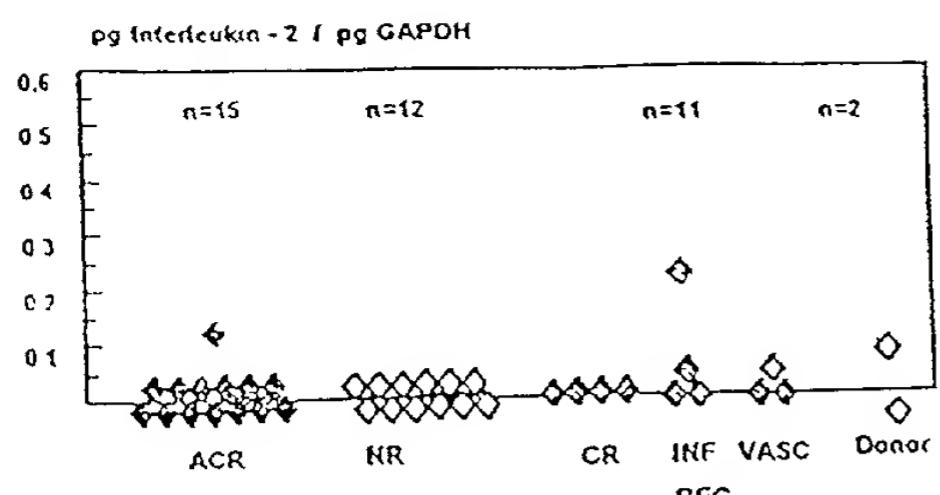


FIGURE 2A

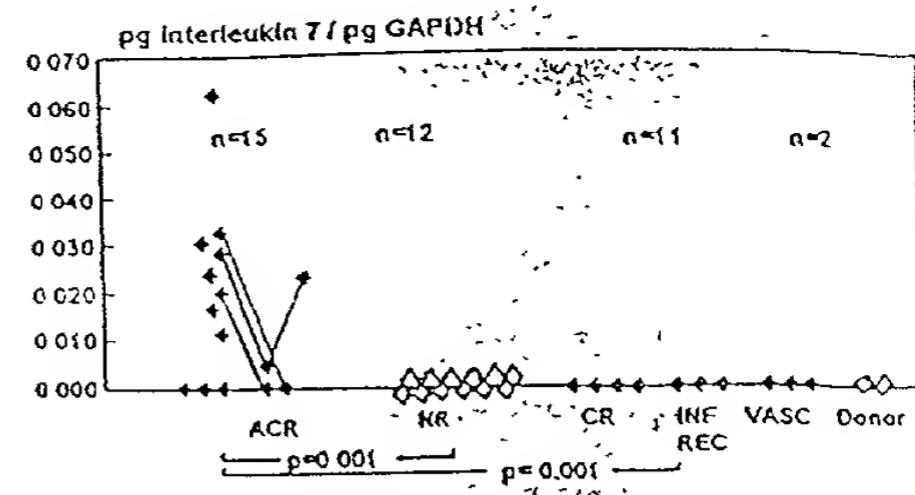


FIGURE 2B

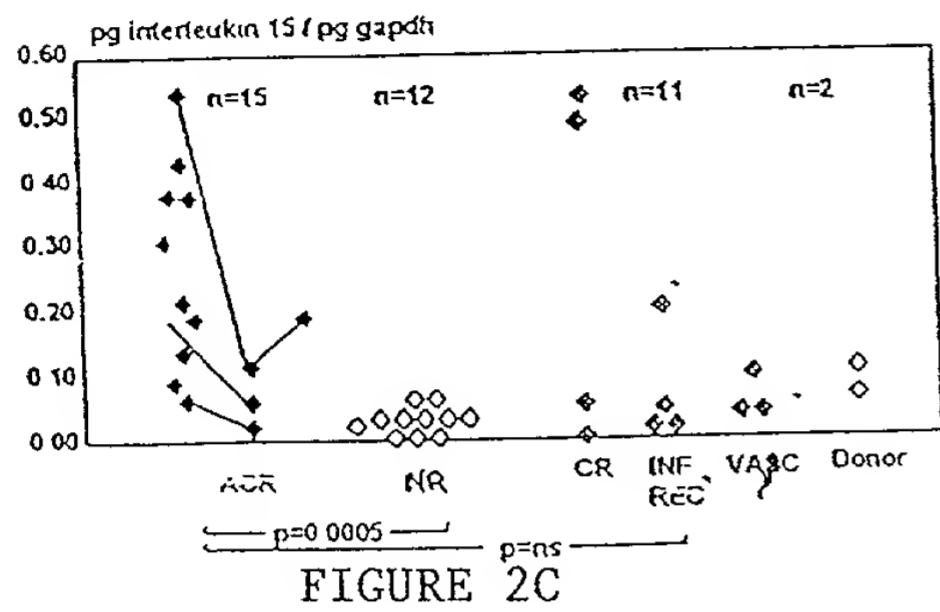


FIGURE 2C

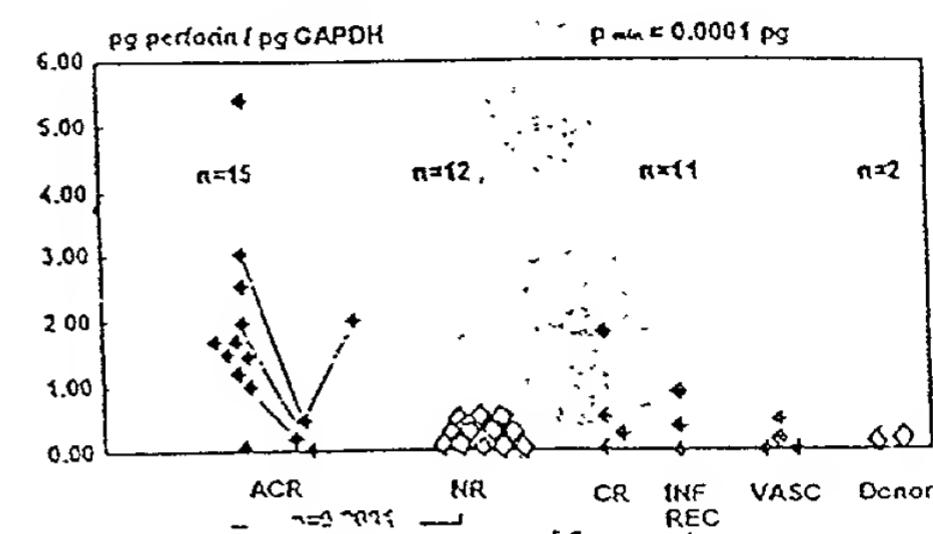


FIGURE 2D

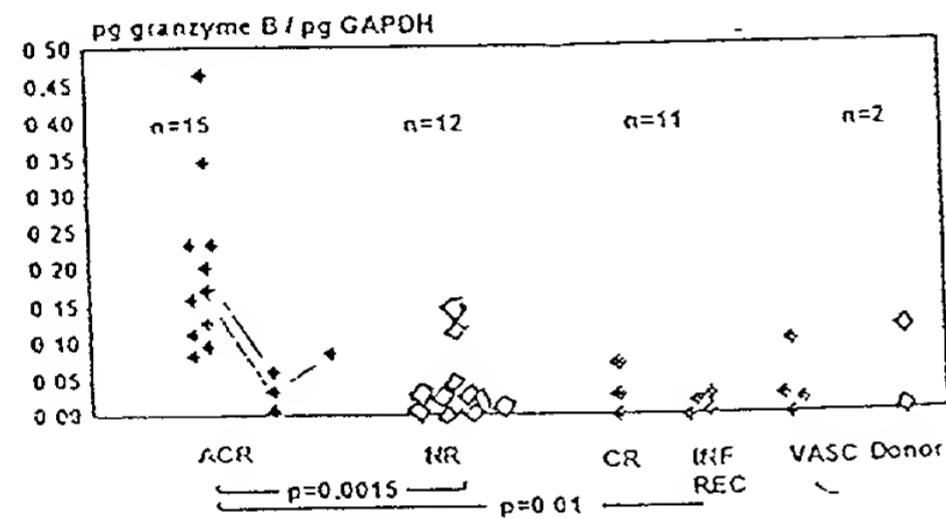


FIGURE 2E

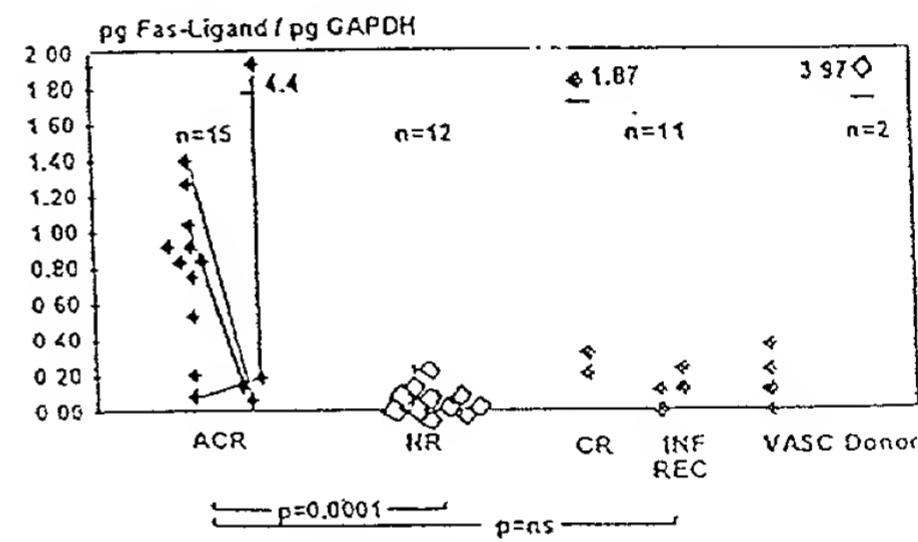
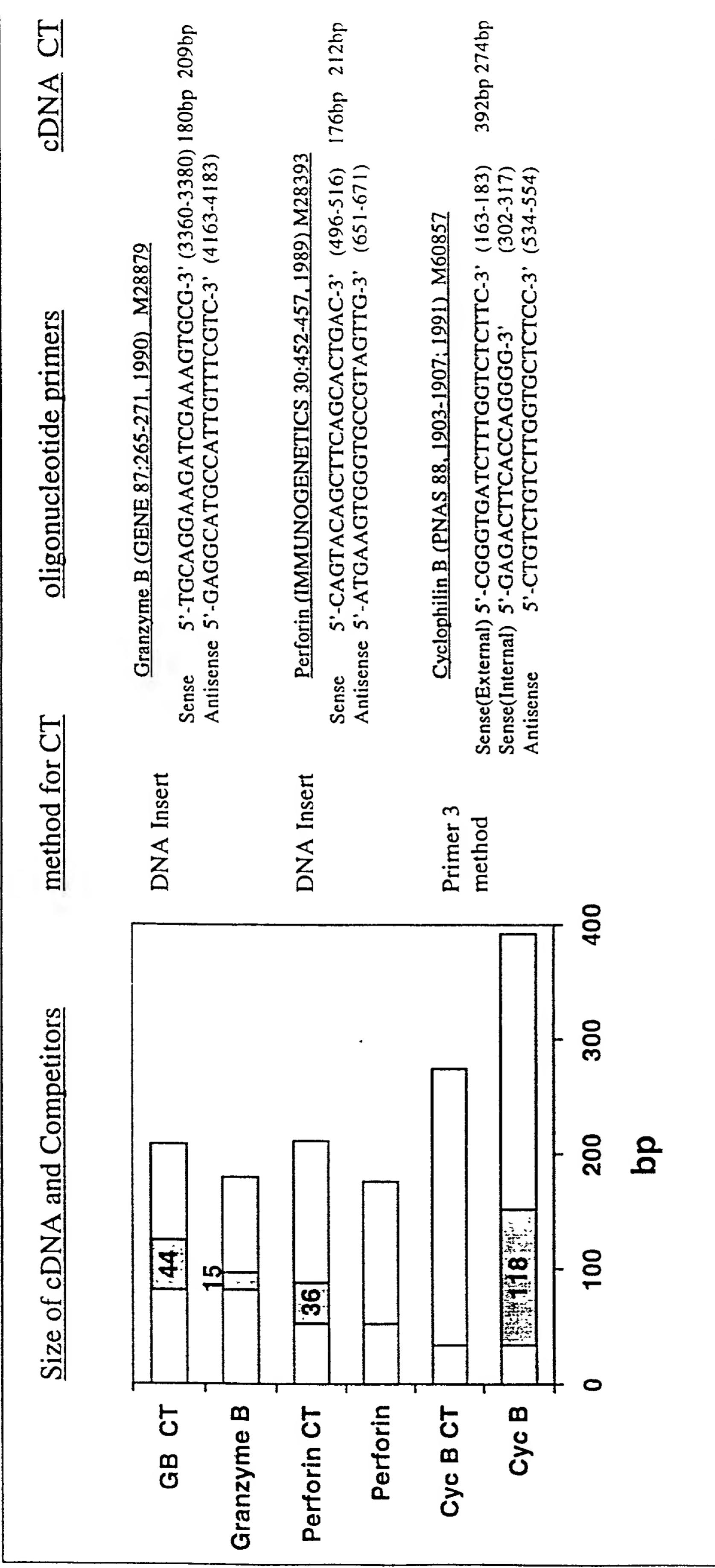


FIGURE 2F

Figure 3



## A. Perforin mRNA

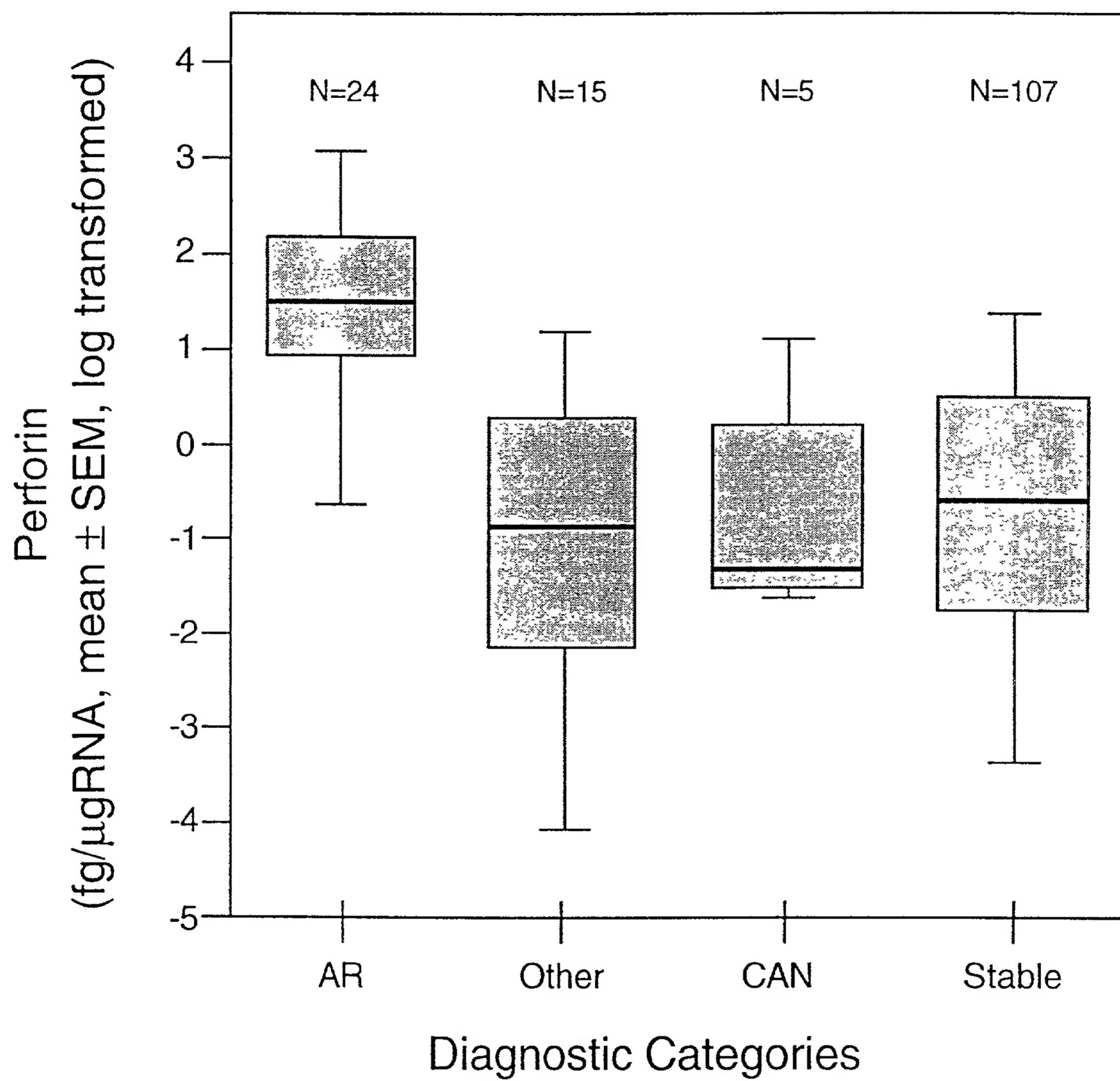


Figure 4A

## B. Granzyme B mRNA

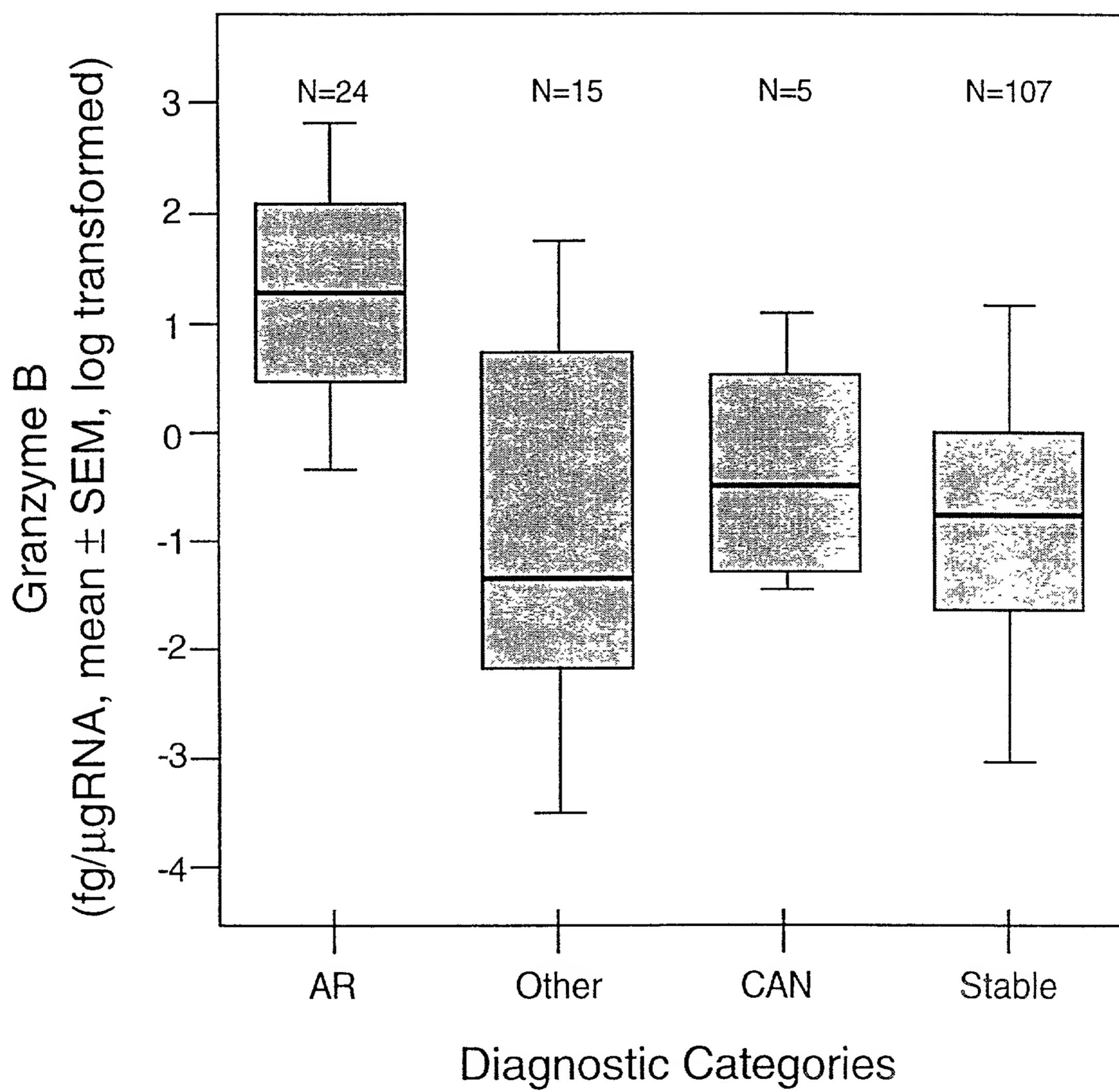


Figure 4B

### C. Cyclophilin B mRNA

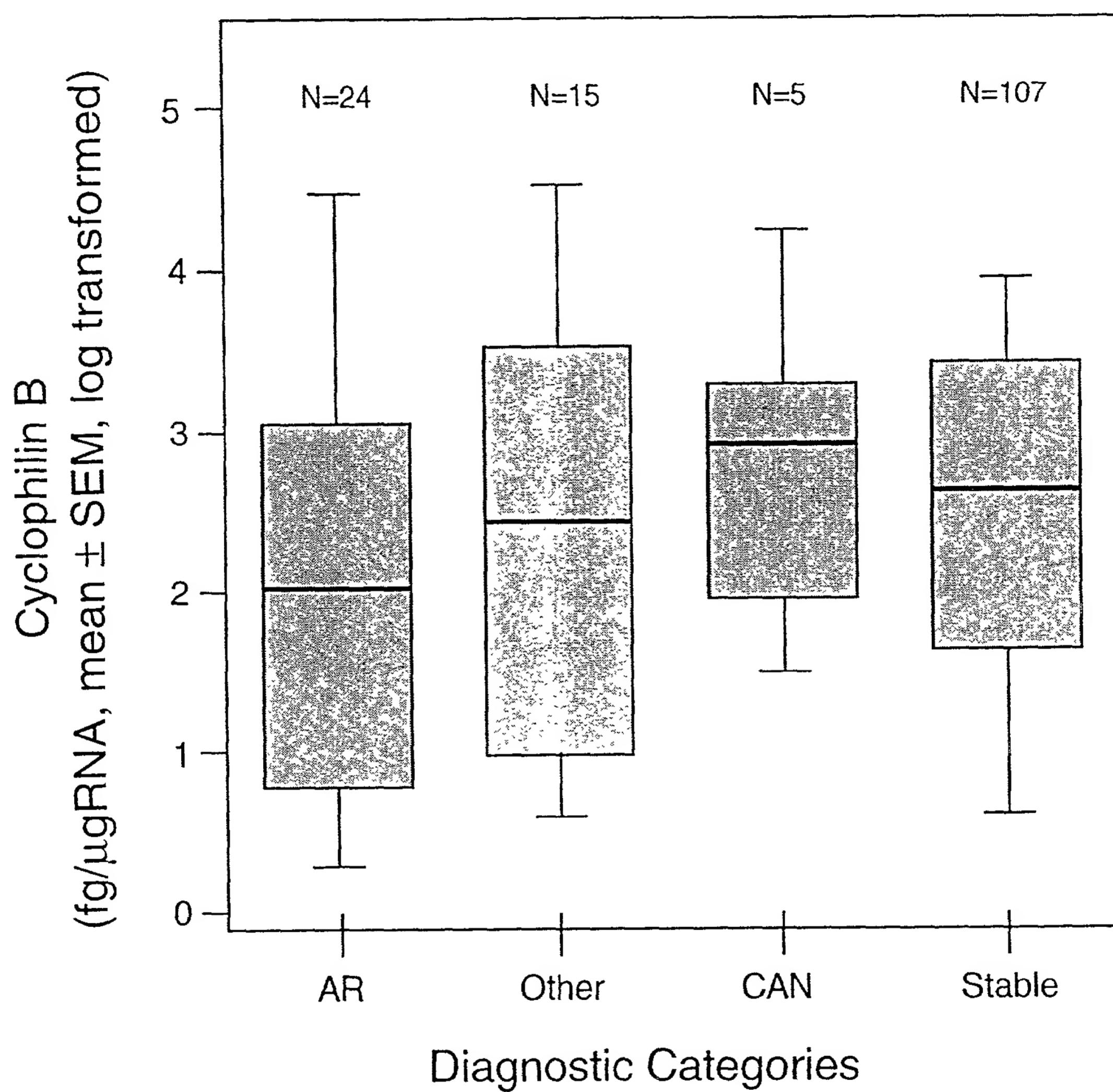
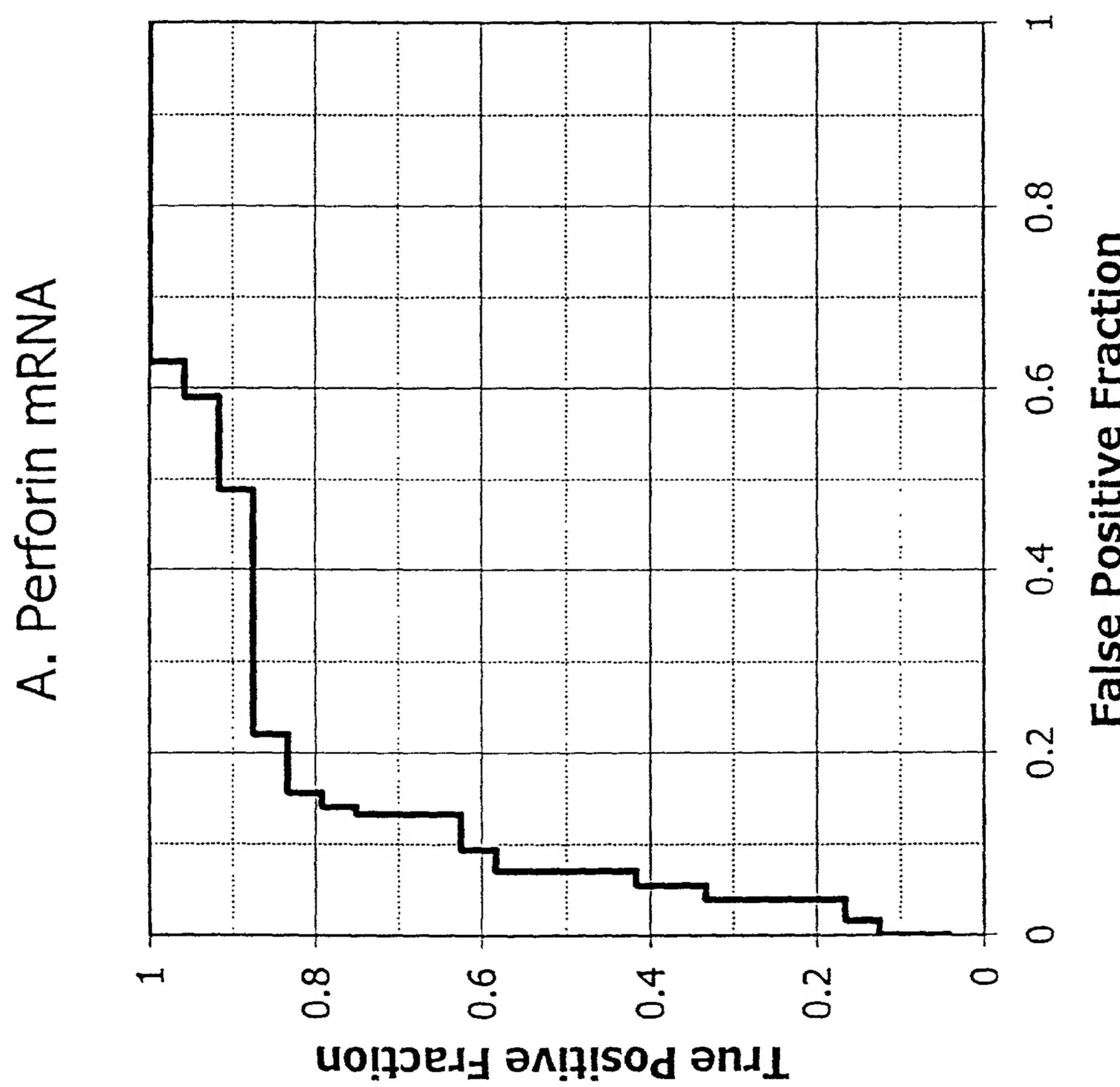


Figure 4C

Figure 5A



**B. Granzyme B mRNA**

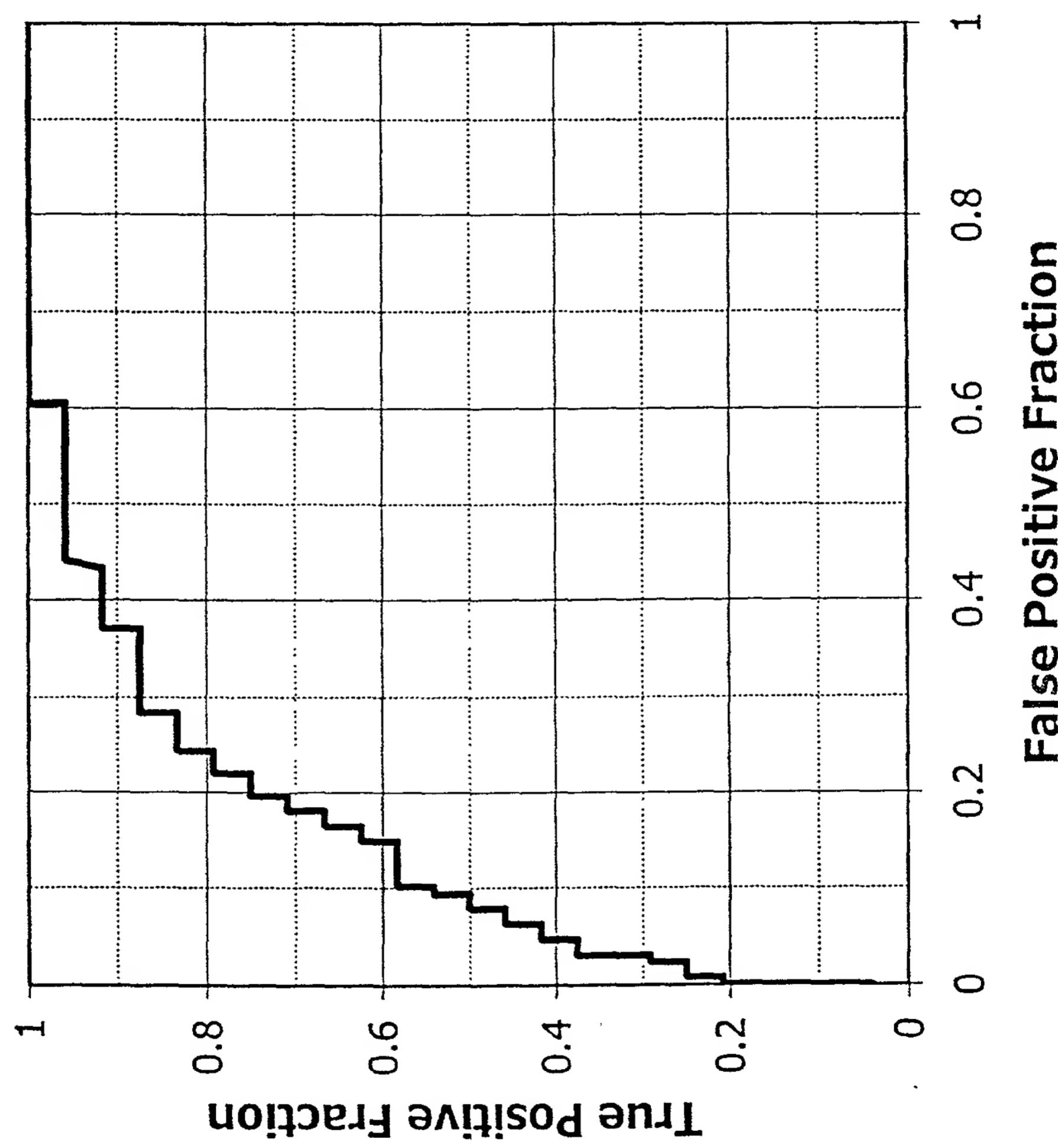


Figure 5B

### C. Cyclophilin B mRNA

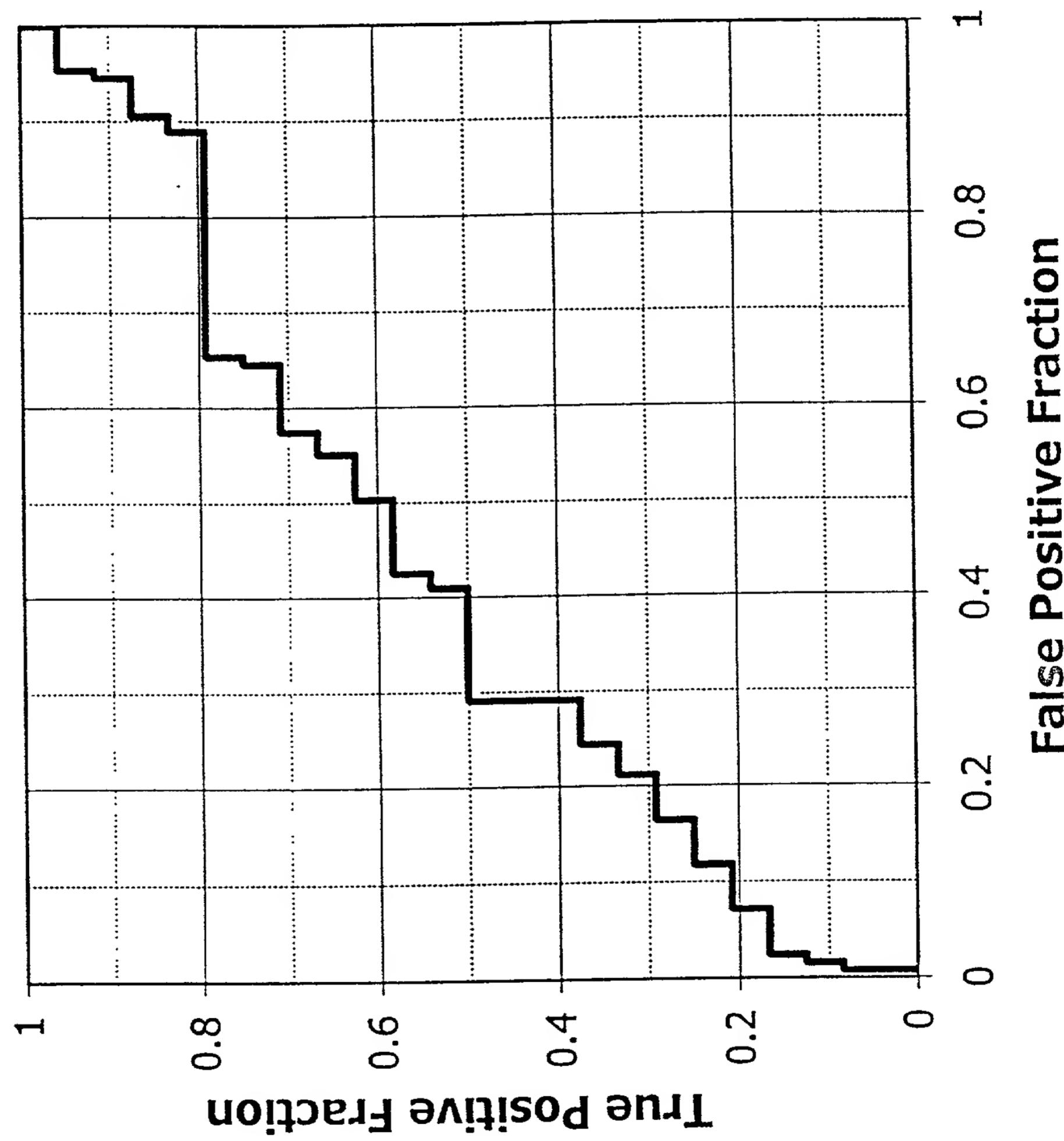


Figure 5C

## A. Perforin mRNA

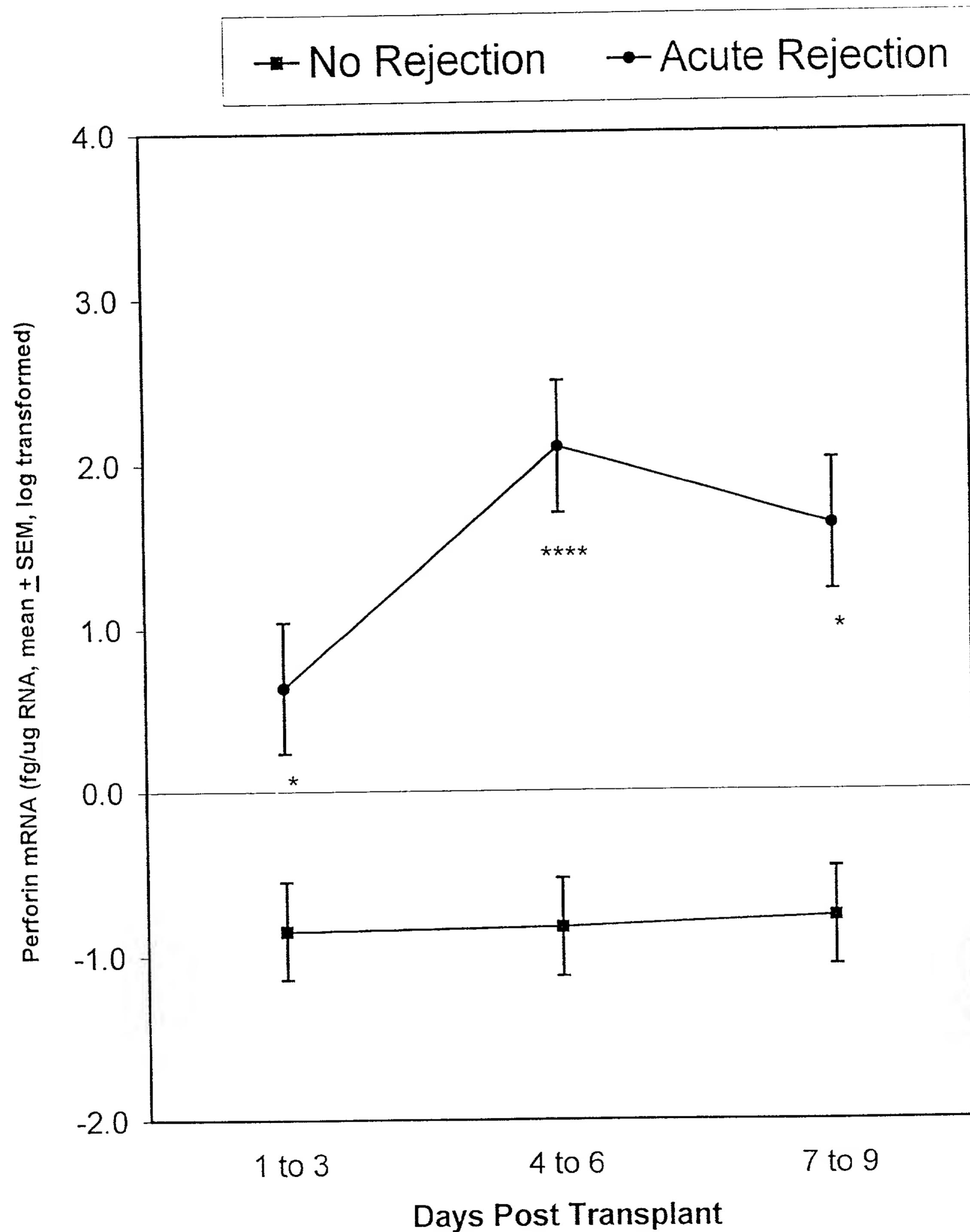


Figure 6A

## B. Granzyme B mRNA

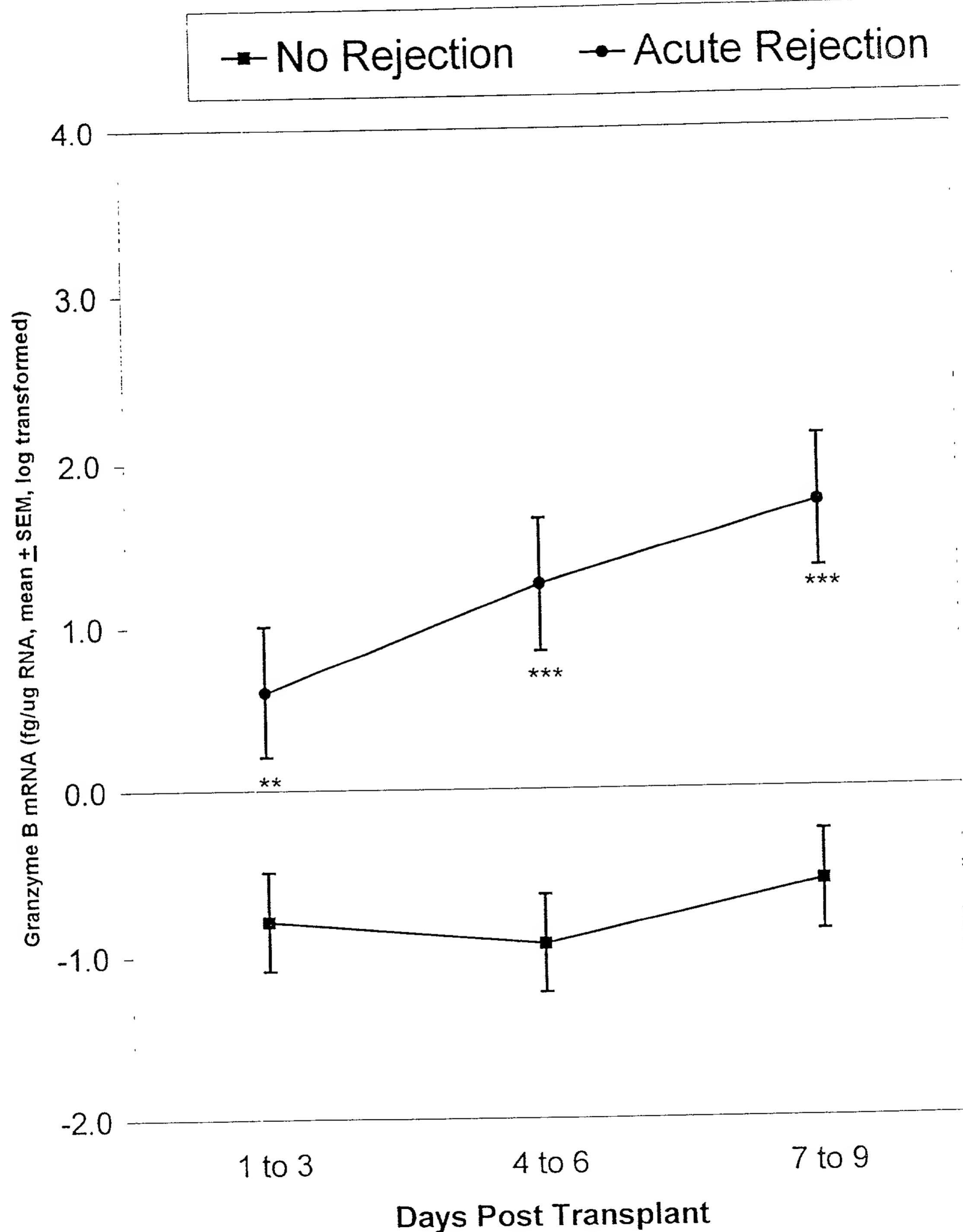


Figure 6B

### C. Cyclophilin B mRNA

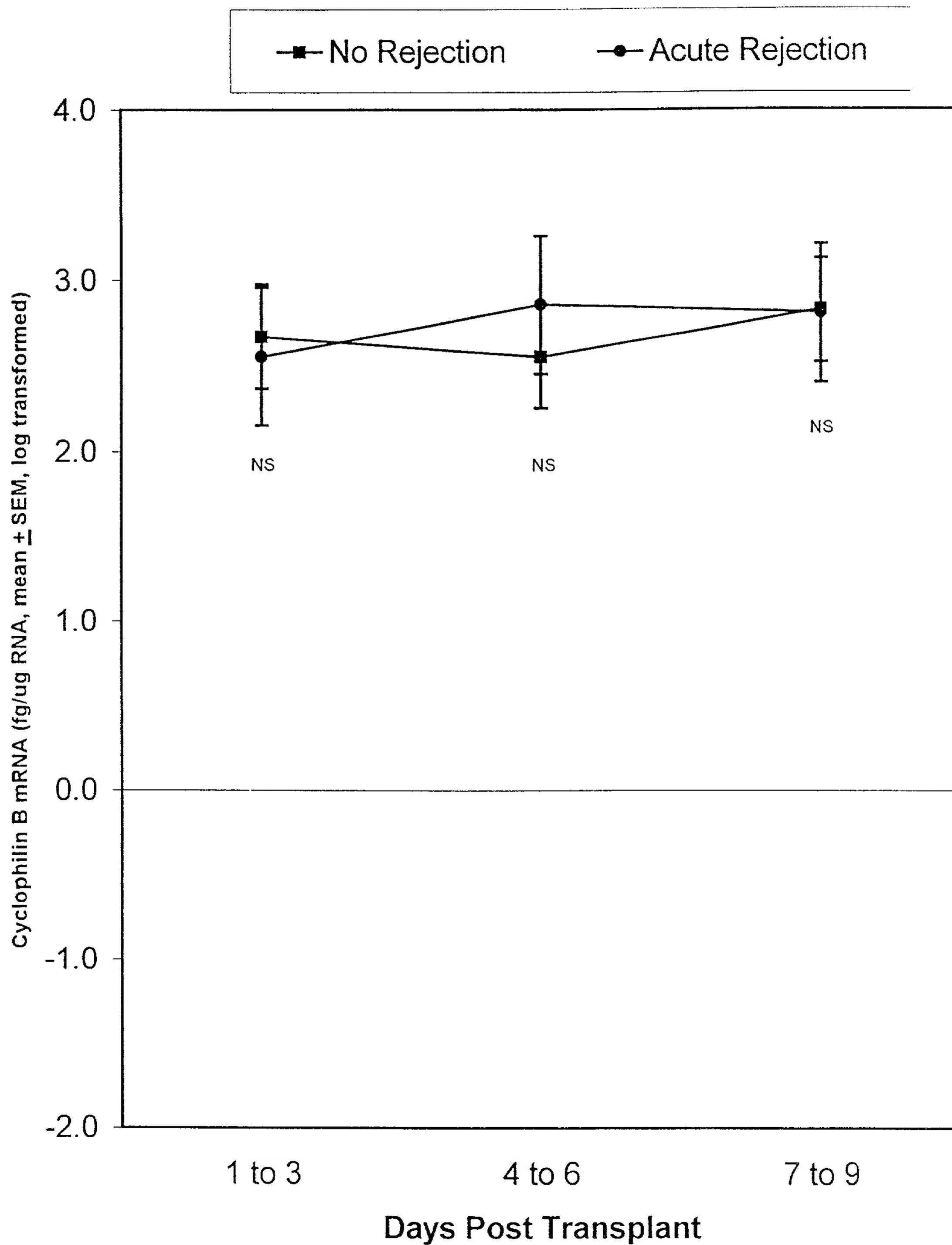
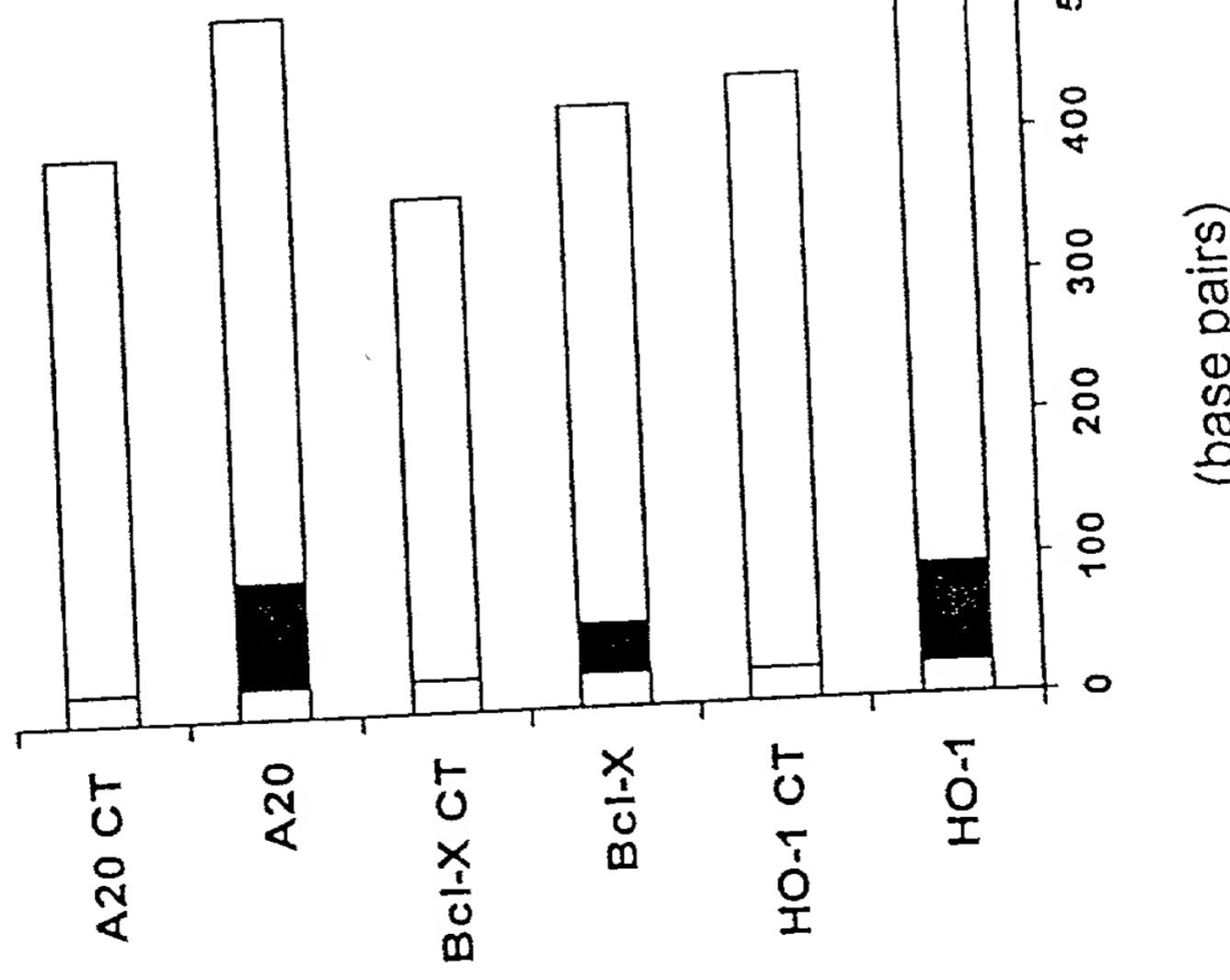


Figure 6C

Size of cDNAs and competitors



oligonucleotide primers

C1

cDNA

A20 ( J Biol Chem 1990; 265: 14705-8 ) M 59465  
sense(external) 5'- TTT GAG CAA TAT GCG GAA AGC -3'[33-53]  
sense(internal) 5'-CAT GCA CCG ATA CAC ACT-3'[126-143]  
antisense 5'- AGT TGT CCC ATT CGT CAT TCC - 3'[491-511]

Bcl-X<sub>L</sub> ( Cell 1993; 74: 597-608 ) Z 23115  
sense( external ) 5'- CAG AAG GGA CTG AAT CGG AGA TGG A -3'[247-270]  
sense(internal) 5'-CCG CGG TGA ATG GAG CCA CTG-3'[322-342]  
antisense 5'- CTA GGT CAT TCA GGT AAG TGG C - 3'[646-669]

Heme oxygenase-1 ( Eur J Biochem 1988; 171: 457-61 ) NM 002133  
sense( external ) 5'- AGG AGA TTG AGC GCA ACA AG - 3'[268-288]  
sense(internal) 5'-GGA GCA GGA CCT CCT GGC CTT CTC G -3'[347-368]  
antisense 5'- GCT CTG GTC CTT GGT GTC AT - 3'[748-768]

Figure 7

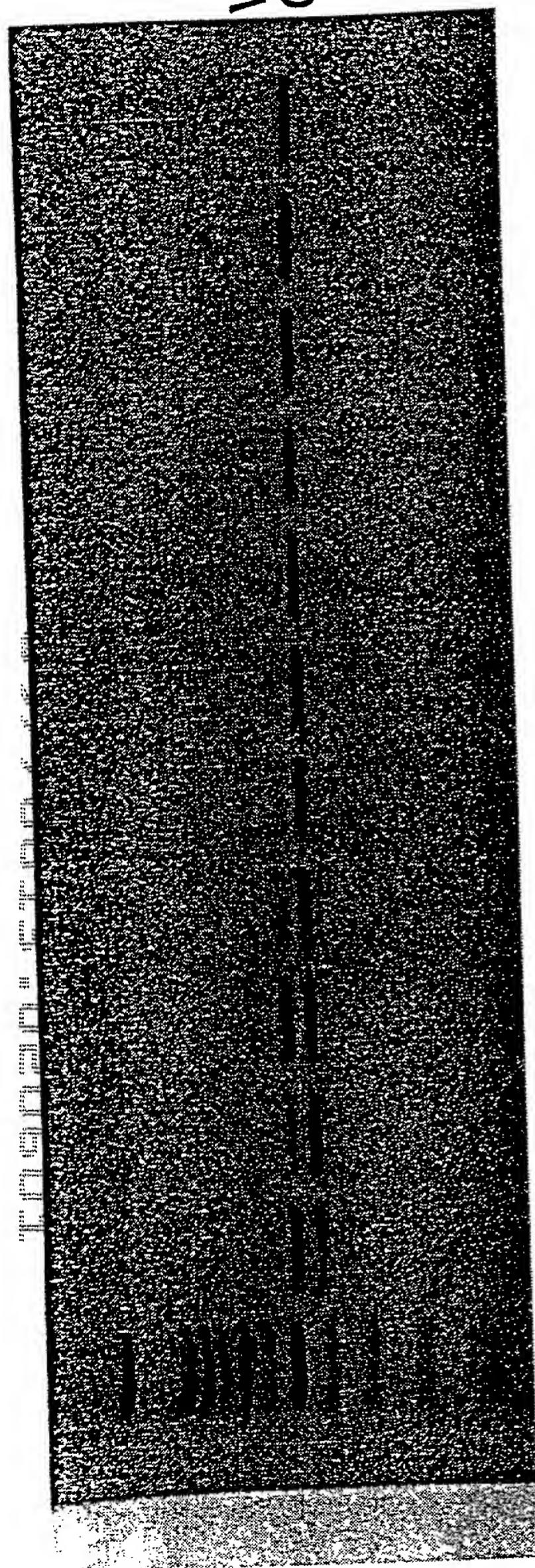


Figure 8A

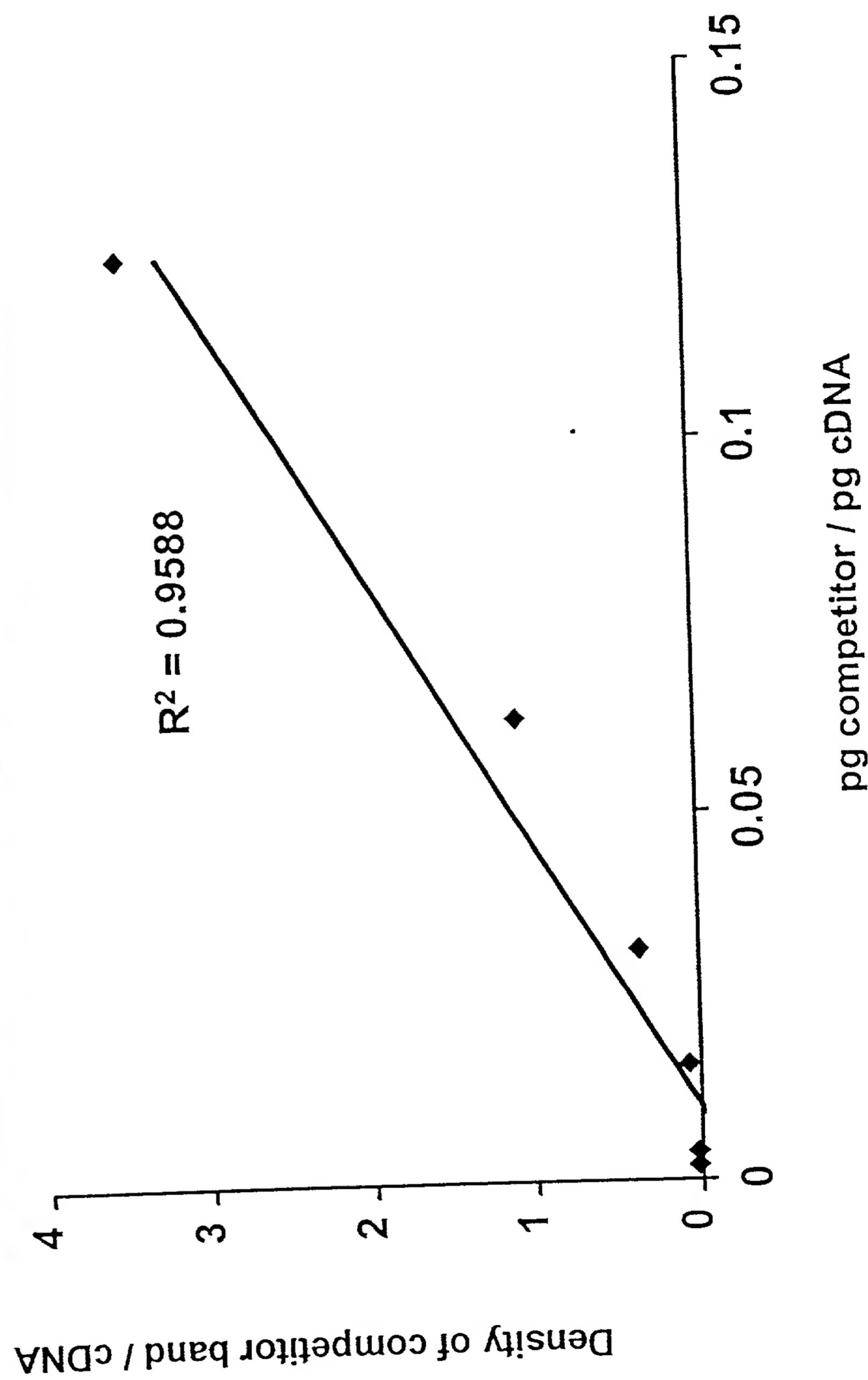


Figure 8B

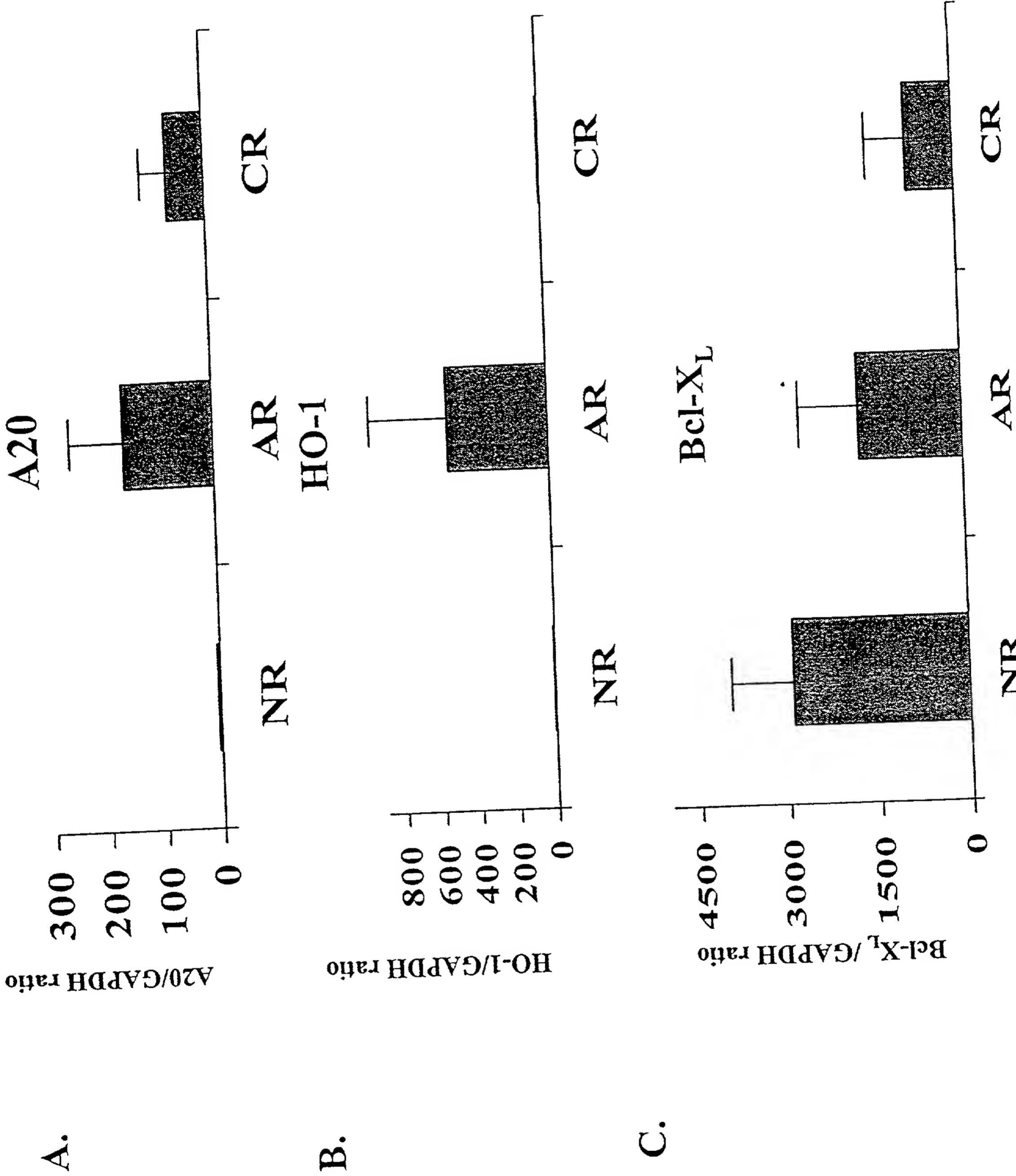


Figure 9

Figures 10 A - C

# A20 protein is localized in endothelial & infiltrating cells of rejected graft

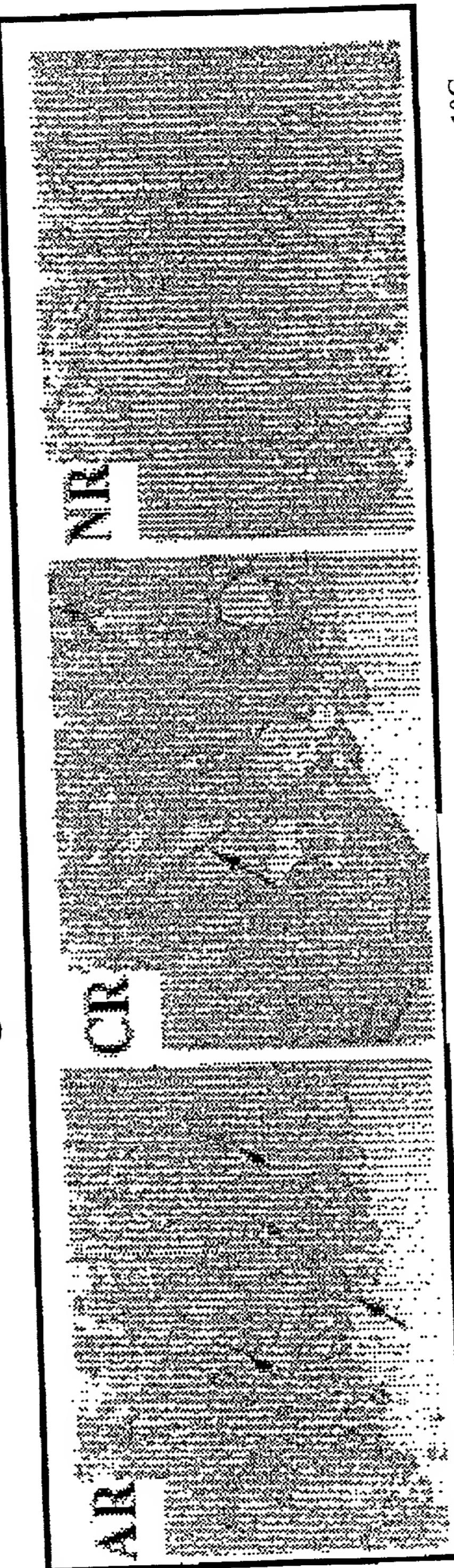


Figure 10A

CR

NR

Figure 10B

AR

acute rejection      chronic rejection      nonrejection

A20  
endothelial      +  
infiltrating      +

-      +      -

NR  
-      -

Figure 10C

# **HO-1 protein is localized in endothelial & infiltrating cells of rejected graft**

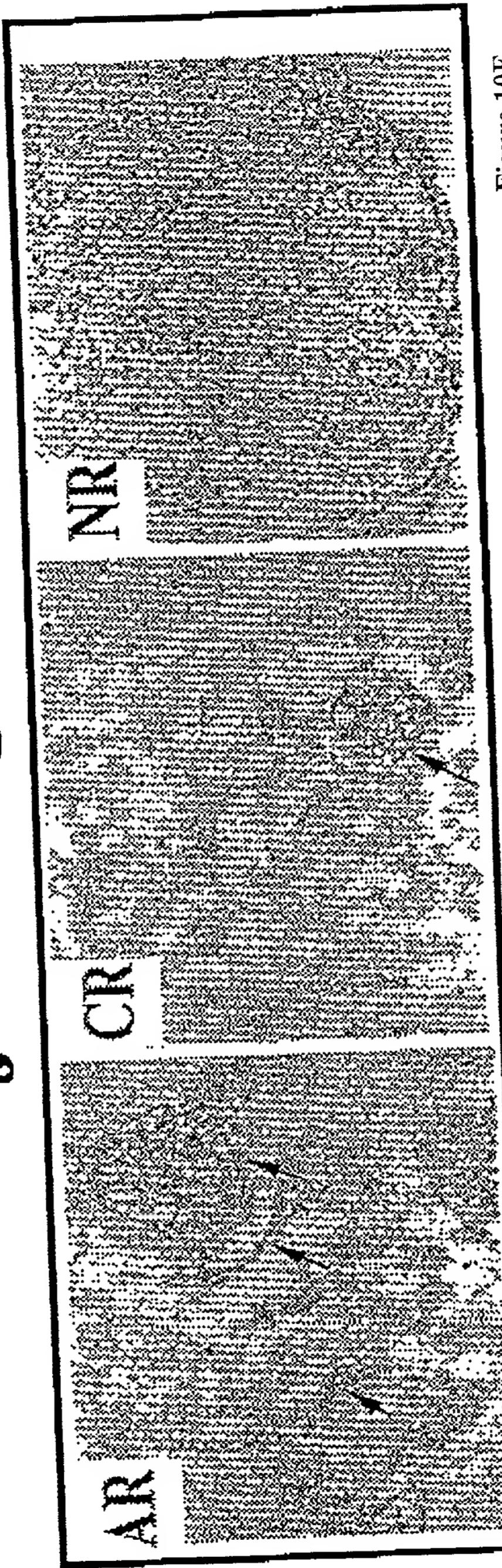


Figure 10D

Figure 10E

Figure 10F

| <u>HO-1</u>  | acute rejection | chronic rejection | nonrejection |
|--------------|-----------------|-------------------|--------------|
| endothelial  | +               | -                 | -            |
| tubular      | +               | -                 | -            |
| infiltrating | +               | -                 | -            |

Figures 10 G - I

# Bcl-X<sub>L</sub> protein is localized in endothelial cells

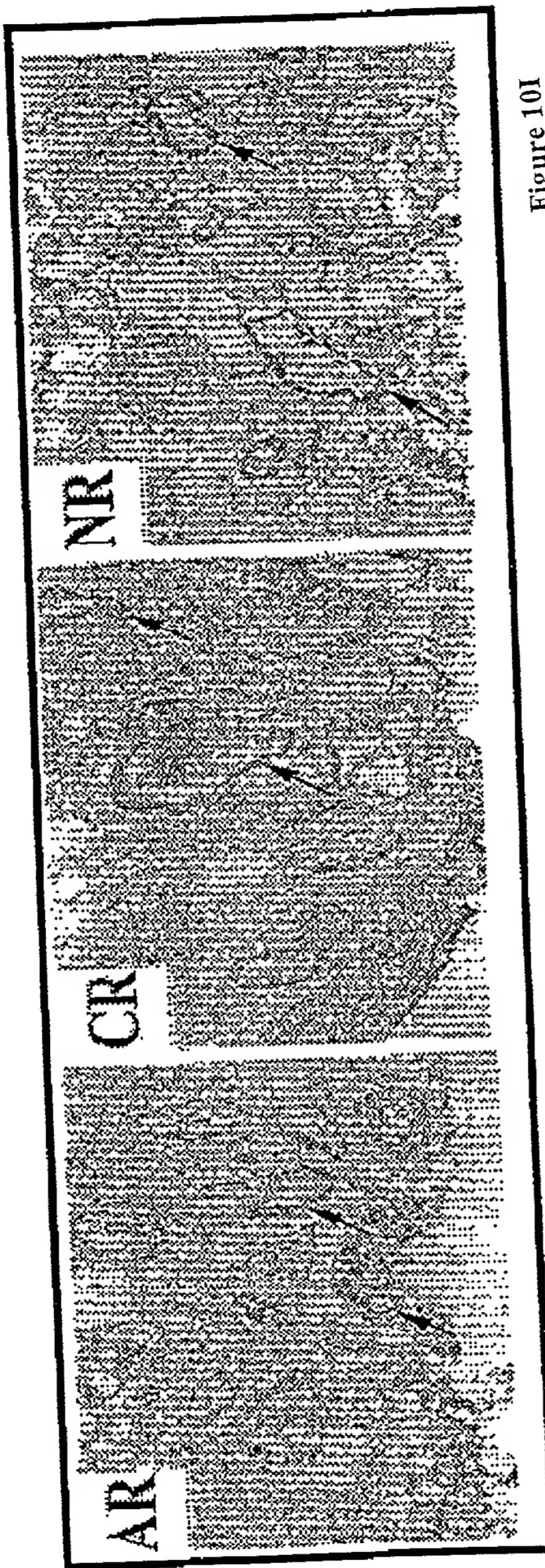


Figure 10G

Figure 10H

Figure 10I

**Bcl-X<sub>L</sub>**  
+  
**endothelial**  
+  
**CR**  
acute rejection  
**NR**  
nonrejection